

Cryolab Series

Aluminium LN2 Storage Dewars

The Cryolab Series are manufactured to a proven design, giving strength and durability to a lightweight aluminium construction. Cryolab Dewars combine the qualities of high thermal efficiency, easy handling and maximum safety.

The Cryolab Series of liquid nitrogen dewars are designed specifically for the storage and decanting of liquid nitrogen.

A range of storage capacities from 2 litres to 50 litres is available to suit individual user requirements.

Duralab 25 - Heavy duty, stainless steel dewar. Ideally suited to the more rigorous handling requirements experienced in industrial applications.

Features

- ▼ 7 different models, Capacities 2L 50L.
- Strong, lightweight aluminium construction.
- High thermal efficiency.
- Ultra Low Loss evaporation rates.
- Optimum holding times.
- Standard bucket or dual grip handles available.
- Accessories: liquid withdrawal devices, roller bases and tipping trolleys.
- 3 Year Warranty on Vacuum.



Technical Specifications

Model	Cryolab 2	Cryolab 5	Cryolab 10	Cryolab 20	Cryolab 25	Duralab 25	Cryolab 35	Cryolab 50
Capacity, litres	2	5	10	20	25	25	35	50
Evaporation Rate, L/day	0.08	0.18	0.2	D.18	0.25	0.6	0.27	0.28
Static holding time, day	\$ 25	28	50	111	100	41	130	179
Weight empty, kg	2.8	4.1	5.6	9.1	7,4	12.2	12.2	15.5
Weight full, kg	4.4	8.1	13,7	25.3	27.6	32.4	40.5	55.9
Neck diameter, mm	32	51	51	51	51	49.5	63	63
Overall height, mm	385	495	560	570	585	600	650	810
Overall diameter, mm	185	216	365	407	395	400	407	407
Part No.	9901015	9901030	9901040	9901050	9901062	9911001	991080	9901090

Warranty

Statebourne as manufacturers of high quality equipment are able to provide durable and dependable containers meeting the demands of modern laboratory and industrial use.

Our commitment to this quality means that we can offer a full 3 year warranty on vacuum.

Cryolab 25 Schematic

Biorack Series

The Biorack series of cryogenic refrigerators provides an attractive boxed storage system as a convenient alternative to traditional canister storage systems.

The square racks hold either 25 cell or 100 cell plastic boxes. This boxed inventory control system provides easy access and quick identification of samples.

The narrow neck design provides exceptionally low evaporation rates thereby offering large storage capacity but with low running costs.

Biorack refrigerators are available in 750, 2400 and 5400 vial capacities.



Biorack 2400 Schematic



Racked cryoboxes can be easily and quickly accessed

Racked Storage Systems

Features

- User friendly racked inventory control system.
- Supplied complete with Racks and Plastic Cryoboxes as standard.
- Suitable for 1.2, 1.8 and 2.0ml cryovials.
- Quick, easy location of cryovials in 25 and 100 cell cryoboxes.
- High Capacity with exceptionally low evaporation rates.
- Lockable lids on all models.
- Accessories include: low level alarms, roller bases.
- CE marked in accordance with EC Medical Devices Directive.
- 3 Year Warranty on Vacuum.



Technical Specifications

Model	Biorack 750	Biorack 2400	Biorack 5400
LN2 Capacity, L	35	50	137
Evaporation Rate, L/day	0.3	0.63	0.63
Holding time, days	117	79	217
Working time, days**	73	50	136
Weight empty, kg	19	29	45
Weight full, kg	47	69	155
Neck diameter, mm	120	216	216
Overall height, mm	710	685	958
Overall diameter, mm	480	646	646
No of racks	5	6	6
No of boxes per racks	6	4	9
Total No of Boxes	30	24	54
No of vials per box	25	100	100
Vial capacity, 2ml	750*	2400	5400
Part No.	9902132-3	9902146-3	9902145-3

^{*}extra centre canister in centre gives vial capacity of 900,

NB: All capacities are based on the 2ml cryovial.

^{**}Working time = Holding time divided by 1.6. Actual working time will vary depending on individual applications.

Bio Series

The Statebourne Bio Series offers Two Ranges of high performance cryogenic refrigerators, A choice of

High Capacity Refrigerators and Long Holding Time Refrigerators are available to accommodate a wide range of cryo-biological cell storage applications.

Designed in our purpose built factory using the very latest computer aided techniques the Bio Series is manufactured to ISO 9001 using super insulating vacuum technology processes. All Statebourne Bio Series refrigerators are individually tested with liquid nitrogen to guarantee the highest levels of performance and security.

The Bio Series is ideally suited for the storage of biological material in cell culture, semen and embryo storage for IVF, fertility and artificial insemination applications. Traditional canister storage systems are designed to hold vials in cryocanes or straws in goblets.

Cryogenic Refrigerators

Features

- Designed for the storage of cells, semen and embryos in either straws or vials.
- 11 models provide a wide variety of storage capacities and holding times.
- 1.2, 2.0 or 5.0ml vials held in canes in canisters.
- Straws held in goblets in canisters.
- Lockable lids on all models.
- Numbered index location rings.
- Accessories include low level alarms, roller bases, canes etc.
- All units come complete with canisters and neck plug.
- CE marked in accordance with EC Medical Devices Directive.
- 3 Year Warranty on Vacuum.



High Capacity Refrigerators allow the storage of large quantities of semen, embryos, and biological material in either straws or vials. Excellent holding times and exceptionally low evaporation rates provide a cost effective storage system with low running costs.

Technical Specification - High Capacity Refrigerators

Bio 12	Bio 21	Bio 22	Bio 34	Bio 36
12	21	21	34	36
0.19	0.19	0.28	0.18	0.30
63	110	75	189	120
39	69	47	118	75
10.8	15.6	15.7	17.8	19.1
20.4	32.6	32.7	45.3	47.4
70	89	120	89	120
470	579	537	710	710
408	480	480	480	480
9	6	10	6	10
46x120	68x120	73x120	69x275	73x275
			684	1020
4680	4920	8200	9840	16400
9902070	9902095	9902096	9902110	9902130
	12 0.19 63 39 10.8 20.4 70 470 408 9 46x120	12 21 0.19 0.19 63 110 39 69 10.8 15.6 20.4 32.6 70 89 470 579 408 480 9 6 46x120 68x120	12 21 21 0.19 0.19 0.28 63 110 75 39 69 47 10.8 15.6 15.7 20.4 32.6 32.7 70 89 120 470 579 537 408 480 480 9 6 10 46x120 68x120 73x120	12 21 21 34 0.19 0.19 0.28 0.18 63 110 75 189 39 69 47 118 10.8 15.6 15.7 17.8 20.4 32.6 32.7 45.3 70 89 120 89 470 579 537 710 408 480 480 480 9 6 10 6 46x120 68x120 73x120 69x275 684

[&]quot;Working time = Holding time divided by 1.6.

Actual working time will vary depending on individual applications.

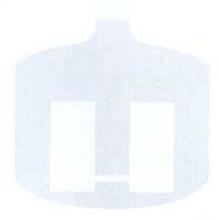
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Long Holding Time Refrigerators provide holding times from 25 days up to 350 days for the purposes of long term storage with minimal use of liquid nitrogen. Canister storage systems provide storage capacities of up to 2400 straws (0.25cc) or 180 vials.



Bio 21 Schematic

Technical Specifications-Long Holding Time Refrigerators

Model	Bio 2	Bio 3	Bio 8	Bio 10	Bio 20	Bio 35
LN2 Capacity, L	2	3	8	10	20	35
Evaporation Rate, L/day	0.08	0.11	0.10	0.10	0.10	0.10
Holding time, days	25	27	80	100	200	350
Working time, days**	16	17	50	63	125	219
Weight empty, kg	3.0	4.3	8.6	7.9	11.1	18.6
Weight full, kg	4.6	6.7	15,1	16.0	27.3	46.9
Neck diameter, mm	32	51	51	51	51	51
Overall height, mm	390	464	475	640	640	730
Overall diameter, mm	185	216	407	305	407	480
No of canisters	3	6	-6	6	6	6
Canister dimensions, mm	25x120	38x120	38x120	38x275	38x275	38x275
Optional mm				38x120		38x120
Vial capacity, 2ml				180	180	180
Straw capacity, 0.25ml	360	1200	1200	2400	2400	2400
Part No	9902015	9902030	9902050	9902060	9902080	9902120
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 All Bio Series refrigerators are supplied with traditional canister storage systems

Biotrek Series

STATEBOURNE biotrek 3



Transport bag for Biotrek 3

Biotrek Schematic

Vapour Phase Portable Dry Shippers

Biotrek dry shippers are manufactured from stainless steel and aluminium with additional reinforcement to provide a rugged transport vessel for the safe transport of biological material.

The Biotrek range of dry shippers contain a special cryo absorbent material in the inner wall which absorbs liquid nitrogen to hold samples in a vapour phase environment at cryogenic temperatures.

Special internal LN2 absorbent allows quick, efficient absorption of liquid in minutes rather than hours saving valuable operator time.

The Biotrek 3 has been specially designed for transport of a wide range of biological material, semen, and embryos. A zip top transport bag is available for easy transportation in hand luggage.

The Biotrek 10 is designed to accommodate the storage and transport of larger quantities of biological material such as blood bags, heart valves and other human or animal organs. Also permits the transport of much larger quantities of straws and vials than a conventional dry shipper with safety and confidence.

Features

- Vapour phase cryogenic storage environment.
- Fast LN2 absorbent time fill in minutes!
- Rugged, stainless steel shipping containers.
- Internal cryo-absorbent holds material safely in vapour phase.
- Blood bag and heart valve storage.
- Straw and cryovial storage options.
- No LN2 spillage.
- Optional canister systems for Biotrek 10.
- Lockable lids on all models.
- CE marked in accordance with EC Medical Devices Directive.
- Complies with IATA shipping regulation 202.
- 3 Year Warranty on Vacuum.

Technical Specifications

Model	Biotrek 3	Biotrek 10	
LN2 Capacity, L	3	10	
Evaporation Rate, L/day	0.15	1.25	
Holding time, days	20	8	
Working time, days**	13	5	
Weight empty, kg	5.0	21.0	
Weight full, kg	8.9	31.9	
Neck diameter, mm	51	184	
No of Canisters	1	4	
Internal dimensions, mm	38 x 275	184 x 275	
Vial capacity, 2ml	30	408	
Straw Capacity, 0.25cc	400	6560	
No of Blood bags		8/9	
Part No	9903030	9915500	
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^{**}Working time = Holding time divided by 1.6. Actual working time will vary depending on individual applications.



Open Dewars Series

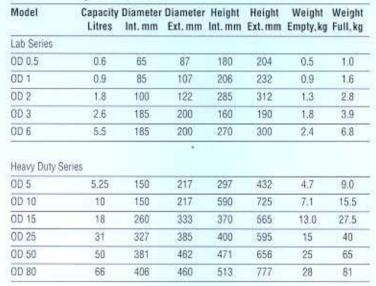
Stainless Steel Open Dewars

The Open Dewar series offers a range of open neck stainless steel dewars, sizes ranging from 0.5 litres to 80 litres capacity. Virtually unbreakable these dewars are resistant to vibration. impact or shock and are ideally suited to a wide range of general laboratory and industrial applications.



- Uses short term storage and immersion of materials, cold traps on vacuum systems, cryosurgery and manipulation of straws, vials and biological specimens.
- The larger 5 to 80 litre heavy duty models are ruggedly designed to meet heavy duty handling requirements.
- All units supplied complete with handles and lids.
- OD 50 and 70 have heavy duty side carrying handles.
- Roller bases available for 15 80 litre models.
- 2 Year Warranty.

Technical Specifications





Cryotemp Wireless LN2 Temperature Alarm

The Cryotemp Wireless Alarm System has been designed to provide 24 hour protection for all biological refrigerators. Small and compact a single transmitter is attached directly to each refrigerator. Communications Centre consists of a Receiver and Auto-dialler which will give audible, visual and telephone communications when an alarm from a Temperature Transmitter is activated.

Features

- Alarm temperature range, -200°C +100°C.
- Time delay range, 0 25 minutes.
- Multiple transmitters can be connected to the system.
- New equipment can be connected to the system in minutes at minimal cost.
- Audible and visual indication when alarm is activated.
- Alarm can be cancelled by remote telephone.



Biorack 750



Cryotemp alarm receiver



Cryotemp alarm transmitter

Cryobiology



Roller Base-Tipping Trolleys

Roller Bases, and pouring trolley is available for use with the Cryolab 25 & Duralab 25 dewars. A series of roller bases are available to suit dewars and refrigerators from 20 to 50 litres capacity.



Phase Separators and Transfer hoses

Used in conjunction with Statebourne's Cryostor low pressure cylinders, transfer hoses together with phase separators, allow for safe and easy decanting of liquid nitrogen without splashing and reduced fogging.



A-H-A

Cryocanes and Sleeves

Aluminium cryocanes holding 5 or 6 vials. PVC and cardboard sleeves provide extra security during handling and storage. PVC does not become brittle while frozen. Cryocane colour.



Cen. No: FM:55455

Accessories



Low Level Alarms/Autofill

Protection for cryo-preserved biological material.

Mains or battery operated alarm provides audible and visual alarm when LN2 level falls below minimum set level. Remote contact available on mains alarm.



Liquid Nitrogen Withdrawal Device

Statebourne low pressure withdrawal device makes dispensing from the larger Cryolab Series of dewars convenient and safe. The withdrawal devices are available in two sizes for use with 51mm & 63mm neck diameters.



Protective Clothing Safety Gloves, Aprons, Face Shields

A wide range of laboratory gloves and aprons are available in standard or waterproof versions. These provide operator protection against freeze burns and frostbite. Available in small, medium and large sizes.



Cryoboxes

Polycarbonate cryoboxes for storage of biological material. 25, 81 and 100 cell options. Internal dividers and moulded numerical numbering on lid.



Oxygen Depletion Monitor

Mains operated, wall mounted G310 Oxygen depletion monitor for continuous monitoring in the 0-25% range. Includes 2 adjustable low level alarms, digital display and 4-20mA output.



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the specifications of our products

In the interests of our policy of continuous improvement, Statebourne reserve the right to amend